

Pre-application Sketch Plan

APPLICATION # SD2022-03

DATE: 06.16.2022

MAP 224 LOT 03
223 13

Prior to requesting a review of a proposed subdivision plan and pursuing the procedure set forth in Article V, an applicant shall submit 9 copies of the following, plus the original:

- ☒ A. A sketch which shall show, in simple sketch form, the proposed layout of the street, lots and other features in relation to existing conditions. The sketch plan, which may be a freehand penciled sketch describing or outlining the existing conditions of the site and showing the proposed development, shall be superimposed on or accompanied by a copy of the Assessor's map of the site.
- ☒ B. A copy of that portion of a USGS topographic map encompassing the site, showing an outline of the proposed subdivision;
- ☒ C. A written request for the waiver of submissions that the applicant intends to submit pursuant to 125-63;
- ☒ D. Information to include:
 - ☐ 1) an outline of data on existing covenants;
 - ☐ 2) medium-intensity soil survey including, soil interpretation sheets;
 - ☐ 3) available community facilities and utilities;
 - ☐ 4) information describing the subdivision proposal such as number of residential lots; typical lot width and depth; price range; business areas; playgrounds; park areas and other public areas;
 - ☐ 5) proposed protective covenants;
 - ☐ 6) proposed utilities and street improvements;
- ☐ E. The names and addresses of all property owners within 300 feet of the property being subdivided; **THIS INFORMATION WILL BE PROVIDED BY THE CODE ENFORCEMENT OFFICE.**
- ☒ F. Fee \$ 950.00. Each pre-application sketch plan shall be accompanied by an administrative fee and a notice fee, which fees shall, from time to time, be set by the Bar Harbor Town Council.



BAR HARBOR PLANNING BOARD
APPLICATION FOR SUBDIVISION

(as described by Article VI of the Bar Harbor Land Use Ordinance)

APPLICATION # 2022-03 DATE 06.15.2022
FEE \$ 950.00 MAP 224 LOT 022 USE MIXED USE (TA-8)
223 013

☐ SUBDIVISION

☒ SKETCH PLAN

APPLICANT :

Name HOLIDAY ASSOCIATES OF NAPLES, LLC

Address 1000 MARKET ST BLDG 1 STE 300
PORTSMOUTH NH 03801

Telephone 204-288-9723

Email EBENSALVATORE@HOTMAIL.COM

OWNER :

Name SAME AS APPLICANT

Address _____

Telephone _____

Email _____

PROJECT REPRESENTATIVES:

Name _____

Address THE MOORE COMPANIES
PO BOX 120, HULLS COVE ME 04644

Telephone 207-288-0006

Email TMC.LAND.ARCH@GMAIL.COM



**BAR HARBOR PLANNING BOARD
APPLICATION FOR SUBDIVISION**

(as described by Article VI of the Bar Harbor Land Use Ordinance)

Please provide a complete written summary that accurately describes the project for which you seek approval (attach additional pages if necessary) :

SEE ATTACHED

CERTIFICATION:

This application and all information submitted are true and correct to the best of our knowledge. If approval is granted, all work executed shall be performed in strict conformance with the approved application, conditions imposed by the Bar Harbor Planning Board and the Bar Harbor Land Use Ordinance. **Permission is hereby granted to the Bar Harbor Code Enforcement Officer, or his/her designee, to enter and have access to the subject property at all times during and immediately upon completion of construction to ensure compliance with the approved application and the Bar Harbor Land Use Ordinance.** Failure to grant such access shall result in the immediate issuance of a stop work order.

It is understood that no application shall be deemed pending until and unless it has been certified as complete by the Bar Harbor Planning Board, that the Planning Board shall not conduct substantive review, a review of the application to determine whether it complies with the standards set forth in the Bar Harbor Land Use Ordinance, until the application has been deemed complete. It is further understood that neither the submission or review of, nor public comments about a pre-application sketch plan, nor the conduct of a site inspection shall be construed to be a substantive review of the proposed development.

Applicant

Perry N. Moore

2022.06.19

08:06:32 -04'00'

Date

FOR EBEN SALVATORE

Owner

Date

Pre- Application Subdivision Sketch Plan for Shore Cottages at Park Entrance Motel

Pursuant to the Provisions of §125-72 of the Land Use Ordinance of the

Town of Bar Harbor, Maine

SD 2022-03

Tax Map 224-022

Shoreland General II – Hulls Cove and Hulls Cove Business Districts

Applicant:

Holiday Associates of Naples, LLC
1000 Market Street, Building 1, Suite 300
Portsmouth NH 03801

Prepared

06.15.2022



Landscape Architecture
PO Box 120 Hulls Cove ME
207.288.0006
tmc.land.arch@gmail.com

06.15.2022

Bar Harbor Planning Board
c/o Planning Department
Bar Harbor Town Offices
93 Cottage Street
Bar Harbor ME 04609



RE: SD-2022-03 Shore Cottages at Park Entrance Motel, Ocean Avenue and Maine Route 3

Members of the Board, through the Chair,

Accompanying this letter is the sketch plan submittal. § 125-109 defines "SUBDIVISION" by reference to 30-A MRSA § 4401(4), and therein: "Subdivision" means the division of a tract or parcel of land into 3 or more lots within any 5-year period that begins on or after September 23, 1971. This definition applies whether the division is accomplished by sale, lease, development, buildings or otherwise. ***The term "subdivision" also includes the division of a new structure or structures on a tract or parcel of land into 3 or more dwelling units within a 5-year period, the construction or placement of 3 or more dwelling units on a single tract or parcel of land and the division of an existing structure or structures previously used for commercial or industrial use into 3 or more dwelling units within a 5-year period...*** (Italics added). The Applicant proposes to construct seven dwelling units (shore cottages) on the property. These will be rented in a manner consistent with allowed uses in the Shoreland General II district and the rentals will be managed by an entity other than the Applicant, which operates the Park Entrance Motel. Park Entrance Motel is a 58-room TA-8 use, currently non-conforming in both districts on which its buildings are located.

The property is 8.02 acres, located on the southern shore of Frenchmans Bay in Hulls Cove, bounded by Ocean Avenue and Route 3. Sketch plan is attached as Sketch Exhibit 1.0 and the Assessor's maps with the parcel highlighted as Sketch Plan Exhibit 1.1.

Waiver requests are referenced to the checklist prepared on March 22, 2022 (appended) and are as follows:

Item 1.F. Registered Farmland

Reason: There is no registered farmland in the Town.

Items 4. B., C., D. and, E. Legal documents.

Reason: The project does not include improvements or activities these submittals are intended to address. Specifically, there are no: roads or other property to be dedicated for public use; improvements requiring screening or buffering as stipulated under § 125-67.H; condominiums; or mining activities as contemplated under § 125-67.X.(3).

Item 5.A. Permits.

Reason: The project does not contemplate wetland alterations that would trigger US Army Corps permitting.

Item 6.D. Capacity statement on schools and bussing

Reason: Local schools are currently under-enrolled. Seven dwelling units would not impact the ability of schools or busses to provide services.

Items 7. B., E., F. and G. Design approval of utilities.

Reason: The proposed project does not involve a new private water supply, wells, shared central wastewater system, or shared wastewater disposal system.

Items 7.1. A., B., C., and D. Design approval from DHS and DEP for central wells and consolidated wastewater disposal

Reason: The project does not involve any of the utilities these design approvals require.

Item 9.H. Remaining undeveloped land

Reason: The project and site does not include reserved undeveloped lands.

Item 9.I. Lot numbers

Reason: The project does contemplate creation of lots. Dwelling units will be depicted on the survey plat and will be numbered on that document.

Item 9.J. Lots sold within past five years

Reason: No property has been sold from this property since it was acquired by the current owner in 2001.

Item 9.M. Sidewalk details (on aerial photo)

Reason: There are no sidewalks adjacent the project nor proposed as part of it.

Item 9.Q. Sign locations

Reason: There are no signs proposed as part of this subdivision.

Item 9.S. Stone walls, graveyards

Reason: There are no stone walls on the property or property lines with adjoining properties. There are no graveyards. Fences will be depicted on site plans.

Item 9. EE and FF. Easements and access locations to adjacent undeveloped land, recreational or open space

Reason: Property is not adjacent any undeveloped properties. The project does not currently have access points to adjacent open space, tidal areas or recreational areas and does not intend to include them.

Item 9.GG. Location of solid, industrial or chemical wastes.

Reason: Industrial and chemical wastes are not part of the project. Locations of waste collection and storage facilities will be shown on plans.

Item 9. JJ. Soil Test Pit Locations

Reason: Project does not include subsurface disposal of wastewater nor soil test pits affirming suitability for subsurface wastewater disposal.

Item 11. D. and F. Landscape and plant maintenance plans, vegetation clearing limits

Reason: Landscaping for buffering is not required as part of this project, however any proposed plantings will be show on plans. No maintenance plans as inferred under § 125-67.H. are required. All proposed site modifications are in areas already cleared of trees, so there will be no limits of clearing to depict on plans.

Item 12. I. Acceleration and deceleration lanes

Reason: Road construction as part of this project does not include these lanes.

Item 15. Subsurface wastewater design plans

Reason: Dwellings will be connected to public sewer; subsurface wastewater is not part of the project.

Item 16. A and B. Groundwater extraction amounts and impact study

Reason: Dwellings will be connected to public water, so no wells will be used and no groundwater extracted.

Item 18. B. State Fire Marshal preliminary approval for buildings

Reason: Dwellings will not be subject to Fire Marshal review.

Item 19. Items relating to hazardous wastes

Reason: No hazardous wastes will be part of this project.

Item 20. D. Seating capacity for restaurants

Reason: project does not include a restaurant.

Item 22. A. Sign design and details

Reason: No signs are proposed as part of this project.

Item 23. B. Traffic impact analysis

Reason: Seven dwelling units will not diminish the service level of adjacent streets under the threshold set in § 125-67.G.1.(a). Trip estimates provided under 23. A. will affirm this assertion.

Item 25.A., and B. Business operations.

Reason: Rental of these dwelling units will not involve "business" or commercial activities with impacts contemplated under various sections of § 125-67, nor involve employees on-site on a daily basis. All activities associated with such rentals will be addressed under other specific sections of § 125-67 such as parking, lights, waste disposal, etc.

Items 26. A. through F. relating to mining operations

Reason: Project does involve mining.

Pursuant § 125-72:

1. USGS map; Provided, see Sketch Plan Exhibit 2
2. Waiver requests; Provided, above

3. Existing Covenants: None

Medium Density Soil Survey and soil interpretation sheets: Provided, see Sketch Plan Exhibit 3.

Available community facilities and utilities: Project site has physical access to existing public roads (Ocean Avenue and Eden Street); Town water and sewer; overhead utilities of electricity, landline phone and/or DSL internet service, cable television and high-speed internet; fire hydrants are located at XX; a portion of the site has an easement for piping and a pump station for Town sanitary sewer;

Number of residential lots: One, with seven dwellings proposed. Multifamily II is an allowed use in the Shoreland General II district.

Typical lot width and depth: Lot is roughly 1100' feet wide and 500' feet deep, and about eight acres.

Price range: Lots will not be sold, but dwellings will be rented in a manner consistent with allowed periods within the district. While an exact range has not yet been determined, the anticipated rental rates will be several thousand dollars a month.

Business areas: Almost all the lot which is zoned Halls Cove Business is allocated to the operation of Park Entrance Motel, a 58-room motel. One building (XX rooms) is located in Shoreland General II.

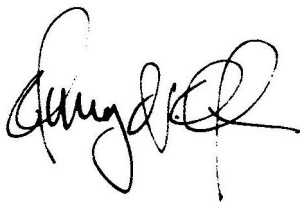
Playgrounds, park areas and other public areas: None. Portions of the site below Mean High Water are accessible to the public and there is a pier which is in operation during the summer sailing months. The pier may be made available to renters or their guests.

Proposed protective covenants: None.

Proposed utilities and street improvements: A new private road built to standards of a minor roadway will be constructed mostly on portions of existing drives and parking areas which will provide access to units 1 through 5. A driveway approximately 250 feet long will provide access to units 6 and 7. Water, sewer and wired utilities will be placed in the road or driveway base, but some overhead transmission of electricity and communications utilities may be used to connect units 1 through 4, depending on depth to bedrock.

4. Abutters names to be provided by Town planning staff. -round residents. Developer is considering options for limiting short-term rentals on the project.

Respectfully submitted on behalf of the Applicant,



Perry N. Moore, ASLA
Maine Licensed Landscape Architect 2699
Pennsylvania Professional Landscape Architect 3255
Principal
The Moore Companies

Bar Harbor Planning Department - Site Plan/Subdivision Application Checklist

Application #: SD-2022-03 Shore Cottages Subdivision Owner: Holiday Association of Naples Applicant Name: Same Applicant Rep/Consultant: Perry Moore	Page #	Exhibit Waiver (W) <div style="display: flex; justify-content: space-around; font-size: small;"> <div style="text-align: center;">PRE APP</div> <div style="text-align: center;">App</div> <div style="text-align: center;">PB</div> </div>	Comments	Applicant to describe reasons why waiver should be granted §125-63 Project Description: Addition of seven single-family dwelling units all within the Shoreland General Development II (Hulls Cove) district General Notes: 1) there are three existing structures on the lot; and 2) Subdivision plan needs to be stamped by a land surveyor and include a signature block.	Zone: Hulls Cove Business and Shoreland General Development II (Hulls Cove) Map/Lot: 224-022-000, 223-013 Lot Size: 8.02± acres Permitted Use in Zone: Single family dwelling units in SGD II (Hulls Cove) Date/Time Pre-App: March 22 @ 10 AM Department Official: MG & AC
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1. SITE PLAN APPLICATION 125-66 a

A	Checklist	39	E			EXHIBIT I.
B	Property Owner's Name/Address	39	E		Application form	EXHIBIT I.
C	Applicant's Name/Address	39	E		Application form	EXHIBIT I.
D	Project Representatives Name/Address	39	E		Application form	EXHIBIT I.
E	Abutters Name & Address within 300 ft. of Property Lines	40	E		Application form	EXHIBIT I.
F	Indication of Registered Farmland within 150 ft. (STAFF PROVIDED)	40	W		No Farmland in BH	WAIVER REQUESTED, SEE COVER LETTER.
G	Description of Proposed Use	40	E		Application form	EXHIBIT I.
H	Written Authorization for Town Official Access	40	E		Application form	EXHIBIT I.
I	Explain how project meets standards	40	E		Applicable standards: • §126-67 General Standards — B. lot standards, C. Height, D. Parking requirements, G. Street, sidewalks, and access, H. Buffering and screening, I. Water supply, J. Municipal water supply, L. Stormwater, M. Municipal sewer facilities, N. Sewage disposal, O. Soils, P. Landscaping, Q. Erosion, T. Refuse Disposal, W. Wildlife Habitat, X. Aesthetic areas and physical and visual access,	

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			PRE APP	App	PB		
						Z. Light and glare. DD. Utilities, EE. Fire protection, GG. Financial and Technical capacity, Other municipal services, LL. Historic and archaeological resources, MM. Utilization of the site, and NN. Natural Features. <ul style="list-style-type: none"> §126-68 Shoreland Zoning — A, B. (4) Erosion and sedimentation, (7) Lot standards, (8) Roads and driveways, (10) Soils, (12) Principal and accessory structures, (13) Clearing or removal of vegetations, (15) Archeological sites, (17) Parking areas, §126-69 Special Standards – N. subdivision 	
2. FEES PAID - Copy of Receipt 125-66 B							
A	Administrative Fee	40	E			\$475 sketch/\$1141 full app	EXHIBIT 2.
B	Evidence of Ordinance & Reg. Compliance	40	E			Provided by CEO	PROVIDED BY PLANNING STAFF.
3. TITLE and INTEREST 125-66 C							
A/B	Current Deed <u>OR</u> Purchase and Sale Agreement	40	E			Per deed	EXHIBIT 3.A AND 3.B
C	Easements, Deed Restriction, R.O.W's, etc.	40	E			Per deed	EXHIBIT 3.C AND SHOWN ON SITE PLANS
4. LEGAL DOCUMENTS 125-66 D							
A	Proposed Easements, Covenants, Agreements, etc.	40	E			If required for public water and sewer	WAIVER REQUESTED, SEE COVER LETTER
B	Proposed Deed for Roads or Other Property to be Dedicated	40.1	W			None proposed	WAIVER REQUESTED, SEE COVER LETTER
C	Proposed Performance and Plant Maintenance Guarantees	40.1	W				WAIVER REQUESTED, SEE COVER LETTER

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D	For condominiums proposed declaration, By Laws, etc.	40.1	W			None proposed	WAIVER REQUESTED, SEE COVER LETTER
E	Site Restoration Guarantee (if required)	40.1	W				WAIVER REQUESTED, SEE COVER LETTER
5. PERMITS 125-66 E							
A	Army Corps of Engineers	40.1	W				WAIVER REQUESTED, SEE COVER LETTER
B	Maine D.E.P.	40.1	E			DEP PBR soil disturbance	EXHIBIT 5.B
C	Other (DOT, Design Review Board, Appeals Board)	40.1	E			Need consultation with MDOT for sight distance at Route 3 as you are adding trips.	EXHIBIT 5.C
6. STATEMENTS OF CAPACITY & DESIGN 125-66 F STAFF PROVIDED							
A	Police	40.1	E				PROVIDED BY PLANNING STAFF.
B	Public Works - Solid Waste; Storm Water; Street, and Recreation	40.1	E				PROVIDED BY PLANNING STAFF.
C	Sewer	40.1	E				PROVIDED BY PLANNING STAFF.
D	Schools & Busing	40.1	W				WAIVER REQUESTED, SEE COVER LETTER
E	Water	40.1	E				PROVIDED BY PLANNING STAFF.
7. DESIGN PLANS 125-66 G							
A	Public Water Supply	40.1	E				EXHIBIT 7.A
B	Central Private Water Supply	40.1	W				WAIVER REQUESTED, SEE COVER LETTER

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			PRE APP	App	PB		
C	Individual Wells	40.2	W				WAIVER REQUESTED, SEE COVER LETTER
D	Fire/dry Hydrants and Ponds	40.2	E				EXHIBIT 9.0
E	Public Sewer	40.2	E				EXHIBIT 9.0 AND 9.1
F	Central Subsurface Wastewater System	40.2	W				WAIVER REQUESTED, SEE COVER LETTER
G	Shared Subsurface Wastewater System	41	W				WAIVER REQUESTED, SEE COVER LETTER
H	Stormwater Disposal System	41	E				EXHIBIT 7.H
I	All other utilities (such as gas, electricity, and cable)	41	E			Ask for modification of standards for overhead electric	EXHIBIT 7.I

7.1 DESIGN APPROVAL by State & Local Agencies 125-66 H

A	Central Water Supply (DHHS)	41	W				WAIVER REQUESTED, SEE COVER LETTER
B	Individual Wells (DHHS)	41	W				WAIVER REQUESTED, SEE COVER LETTER
C	Central Subsurface Sewage Disposal (DHHS)	41	W				WAIVER REQUESTED, SEE COVER LETTER
D	Waste Water Discharge (DEP)	41	W				WAIVER REQUESTED, SEE COVER LETTER
E	Approval by DOT	41	E			Refer to section 5C	EXHIBIT 5.C

MAPS & PLANS 125-66 J. (2)

8. LOCATION MAP (Location indicated on a USGS 7.5 minute map)

	Magnetic North	41	E			Show on USGS 7.5 minute map	EXHIBIT 8
	Plan Preparation Date	41	E			Show on USGS 7.5 minute map	EXHIBIT 8

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	Graphic Scale	41	E			Show on USGS 7.5 minute map	EXHIBIT 8
	Owner & Applicant Name/Address	41	E			Show on USGS 7.5 minute map	EXHIBIT 8
	Designer, Surveyor, Engineer	41	E			Show on USGS 7.5 minute map	EXHIBIT 8
	Name of each Municipality in which the development is located	41	E			Show on USGS 7.5 minute map	EXHIBIT 8
	Tax Map & Lot Number(s) and Land Use District	41	E			Show on USGS 7.5 minute map	EXHIBIT 8
9. SITE PLAN Scale not to Exceed 1"=40' 125-66 J							
	Magnetic North	41	E				EXHIBIT 9 AND 9.2
	Plan Preparation Date	41	E				EXHIBIT 9 AND 9.2
	Graphic Scale	41	E				EXHIBIT 9 AND 9.2
	Owner & Applicant Name/Address	41	E				EXHIBIT 9 AND 9.2
	Designer, Surveyor, Engineer	41	E				EXHIBIT 9 AND 9.2
	Name of each Municipality in which the development is located	41	E				EXHIBIT 9 AND 9.2
A	Abutting Property owners with Book/Page References	41	E				EXHIBIT 9 AND 9.2
B	Tax Map & Lot Number(s)	41	E				EXHIBIT 9 AND 9.2
C	Land Use District(s)	41	E				EXHIBIT 9 AND 9.2
D	Lot Line Dimensions (metes & bounds)	41	E				EXHIBIT 9 AND 9.2
E	Lot Size in Square Feet	41	E				EXHIBIT 9 AND 9.2

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F	Locations of Lot Monumentations	41	E				EXHIBIT 9 AND 9.2	
G	Total Proposed Development Acreage	41	E				EXHIBIT 9 AND 9.2	
H	Remaining Undeveloped Land Retained	42	W			None retained	WAIVER REQUESTED, SEE COVER LETTER	
I	Lot Numbers	42	W			No lots created	WAIVER REQUESTED, SEE COVER LETTER	
J	Lots Developed/Sold within Past 5 Years	42	W				WAIVER REQUESTED, SEE COVER LETTER	
K	Subdivisions within 200 ft. With Owners Names	42	E				EXHIBIT 9 AND 9.2	
L	Existing/Proposed Contours @ 5 or 10 ft. Intervals	42	E				EXHIBIT 9 AND 9.2	
M	Items within 200 feet of the subject property:	42						
	Buildings & Structures	42	E			Provide aerial photo	EXHIBIT 9, 9.1 AND 9.2	
	Streets (W/names)	42	E			Provide aerial photo	EXHIBIT 9, 9.1 AND 9.2	
	Sidewalks	42	E			Provide aerial photo	EXHIBIT 9, 9.1 AND 9.2	
	Easements	42	E			Provide aerial photo	EXHIBIT 9, 9.1 AND 9.2	
	Driveways, Entrances, Exits	42	E			Provide aerial photo	EXHIBIT 9, 9.1 AND 9.2	
N	Location of Existing & Proposed Buildings/Structures On Site	42	E				EXHIBIT 9, 9.1 AND 9.2	
O	Distance between Proposed Buildings/Structures On Site	42	E				EXHIBIT 9, 9.1 AND 9.2	
P	Utilities Locations - Existing/Proposed	42	E				EXHIBIT 9, 9.1 AND 9.2	
Q	Sign Locations - Existing/Proposed	42	W				EX WAIVER REQUESTED, SEE COVER LETTER	
R	Open Drainage Courses, Wetlands, Vernal Pools, and Gravel Aquifers	42	E				EXHIBIT 9, 9.1 AND 9.2	

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S	Stone Walls, Graveyards, and Fences	43	W			There are none	WAIVER REQUESTED, SEE COVER LETTER
T	Significant Wildlife Habitat or Spawning Grounds Locations (IF&W)	43	E				EXHIBIT 9.T
U	Rare & Irreplaceable Natural Areas Locations (Critical Areas Program)	43	E				EXHIBIT 9.U
V	Historic & Archaeological Site Locations	43	E				EXHIBIT 9.V
W	Wetlands & Waterbody Locations within 250' (regardless of size)	43	E				EXHIBIT 9, 9.1 AND 9.2
X	Shoreline	43	E				EXHIBIT 9, 9.1 AND 9.2
Y	100 Year Flood Elevation	43	E				EXHIBIT 9, 9.1 AND 9.2
Z	Portions of the Site Subject to Routine Flood/Standing Water	43	E				EXHIBIT 9 AND 9.2
AA	Lot Lines and Water bodies Setbacks	43	E				EXHIBIT 9 AND 9.2
BB	Fire Hydrants & Fire Ponds Existing/Proposed	43	E				EXHIBIT 9 AND 9.2
CC	Fire/Emergency Equipment Site Access	43	E				EXHIBIT 9 AND 9.2
DD	Easements/Access to Water Bodies Existing/Proposed	43	E				EXHIBIT 9 AND 9.2
EE	Access Locations to Adjacent Undeveloped Land	43	W			None proposed	WAIVER REQUESTED, SEE COVER LETTER
FF	Recreation/Open Space Land Existing/Proposed	43	W				WAIVER REQUESTED, SEE COVER LETTER
GG	Solid, Industrial, Chemical, Explosive or Hazardous Waste Locations	43	E			Solid waste - dumpster	EXHIBIT 9.2 FOR SOLID WASTE, WAIVER REQUESTED FOR OTHERS, SEE COVER LETTER

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	PRE APP		App	PB			
HH	Lot Coverage Calculations - Existing/Proposed	43	E				EXHIBIT 9 AND 9.2
II	Parking Locations with Dimension, Angles, Radii, etc.	44	E				EXHIBIT 9 AND 9.2
JJ	Soil Test Pit Location	44	W				WAIVER REQUESTED, SEE COVER LETTER
10.	MEDIUM INTENSITY SOIL SURVEY – 125-66 J.(15)	42	E				
11. LANDSCAPING, BUFFERING & SCREENING PLAN 125- 66 J (22)							
A	Botanical & Common Names	42	E				EXHIBIT 11
B	Plant Locations & Size	42	E				EXHIBIT 11
C	Installation Schedule	42	E				EXHIBIT 11
D	Maintenance Plan	42	W				WAIVER REQUESTED, SEE COVER LETTER
E	Vegetation Clearing Limits	42	W				WAIVER REQUESTED, SEE COVER LETTER
F	Tree (8+" d.b.h.) Locations	43	E				EXHIBIT 9 AND 9.2
12. STREET, SIDEWALK & ACCESS PLAN 125-66 J (44)							
<i>Construction Drawings Showing a Plan View, Profile, and Typical Cross Section of the following within 300' at 50' Intervals</i>							
A	Drainage Scheme at all Intersections Existing/Proposed	44	E				EXHIBIT 12
B	Intersections of Proposed Streets with Existing Streets	44	E				EXHIBIT 12

Bar Harbor Planning Department - Site Plan/Subdivision Application Checklist

Application #: SD-2022-03 Shore Cottages Subdivision Owner: Holiday Association of Naples Applicant Name: Same Applicant Rep/Consultant: Perry Moore		Page #	Exhibit Waiver (W) <div style="display: flex; justify-content: space-around; font-size: small;"> PRE APP App PB </div>			Comments	Applicant to describe reasons why waiver should be granted §125-63
C	Access - Roadway/R.O.W. with Edge of Payment, Shoulders, Sidewalks and Curbs	44	E				EXHIBIT 12
D	Drainage Feature - Type, Size, Profile, Cross Section, and Inverts	44	E				EXHIBIT 12
E	Horizontal & Vertical Curve Data	44	E				EXHIBIT 12
F	Intersections - Turning Radii	44	E				EXHIBIT 12
G	Centerline Grade	44	E				EXHIBIT 12
H	Bearing, Distance, Tangent, Radii for All Street Lines	44	E				EXHIBIT 12
I	Location, Dimension, Grade, Radii of Accel and Decel Lanes	44	W				WAIVER REQUESTED, SEE COVER LETTER
J	Design Details for Street Improvements	44	E				EXHIBIT 12
K	Travel Direction	44	E				EXHIBIT 12
L	Crosswalk Locations	44	E				EXHIBIT 12
M	Street Names	44	E				EXHIBIT 12
N	Subdivision Name	44	E				EXHIBIT 12
13. E-911 125-66 K							
A	Street Name Certification by Addressing Office	45	E				EXHIBIT 13
14. PHOTOGRAPHS 125-66 L (All pictures must be labeled with a description)							
A	Town's Aerial Photograph	45	E				EXHIBIT 9.1

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B	Pictorial of Site from Public Ways, Site Location/N,S,E,W	45	E				EXHIBIT 14.B
	Existing Improvements within 200'	45	E				EXHIBIT 9.1
	Existing Vegetation within 200'	45	E				EXHIBIT 9.1
	Other Physical and Natural Features within 200'	45	E				EXHIBIT 9.1
15. SUBSURFACE WASTEWATER DISPOSAL 125-66 M							
A	HHE 200 Forms	46	W				WAIVER REQUESTED, SEE COVER LETTER
16. GROUNDWATER - to be extracted 125-66 N							
A	Use Assessment - Daily, Monthly, & Annual Rate	46	W				WAIVER REQUESTED, SEE COVER LETTER
B	Hydrogeological Impact Study I	46	W				WAIVER REQUESTED, SEE COVER LETTER
17. EROSION & SEDIMENTATION PLAN 125-66 O							
A	Erosion & Sedimentation Control Plan	46.1	E				EXHIBIT 17
18. FIRE PROTECTION 125-66 P							
A	Statement from Bar Harbor Fire Chief (STAFF PROVIDED)		E				PROVIDED BY PLANNING STAFF.
B	State Fire Marshall's Office Preliminary Approval	46.1	W				WAIVER REQUESTED, SEE COVER LETTER

Bar Harbor Planning Department - Site Plan/Subdivision Application Checklist

Application #: SD-2022-03 Shore Cottages Subdivision Owner: Holiday Association of Naples Applicant Name: Same Applicant Rep/Consultant: Perry Moore			Page #	Exhibit Waiver (W) <div style="display: flex; justify-content: space-around; font-size: small;"> PRE APP App PB </div>			Comments	Applicant to describe reasons why waiver should be granted §125-63
19. SOLID & HAZARDOUS WASTE 125-66 Q								
A	Description, Amount and Nature Of Solid and/or Hazardous Waste	47	E				EXHIBIT 19.A	
	Copy Of Applicable Fed & State Regs for Spec. & Hazardous Wastes	47	W				WAIVER REQUESTED, SEE COVER LETTER	
	Copy Of Applicable Fed & State Permits for Spec. & Hazardous Wastes	47	W				WAIVER REQUESTED, SEE COVER LETTER	
	Method of Transport, Storage, Disposal and Material Handling	47	W				WAIVER REQUESTED, SEE COVER LETTER	
20. BUILDING PLANS & ELEVATIONS 125-66R								
A	Floor Plans for All Levels of All Structures	47	E				EXHIBIT 20.A	
B	All Elevations Indicating Height and Proposed Exterior Materials and Colors	47	E				EXHIBIT 20.B	
C	Proposed Use of All Floors	47	E				EXHIBIT 20.C	
D	Seating Capacity - Restaurants only	47	W				WAIVER REQUESTED, SEE COVER LETTER	
21. LIGHTING PLAN 125-66 S								
A	Exterior Lighting Details Existing & Proposed	47	E				EXHIBIT 20.A	
B	Types of Fixture with Manufacturer' Specifications Sheets	48	E				EXHIBIT 21.B	
C	Radius of Intensity of Illumination	48	E				EXHIBIT 20.A	
22. SIGNS 125-66 T								

Bar Harbor Planning Department - Site Plan/Subdivision Application Checklist

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	PRE APP		App	PB			
A	Design Details Existing & Proposed	48	W			None	WAIVER REQUESTED, SEE COVER LETTER
23. TRAFFIC IMPACT 125-66 U							
A	Trip Estimates - Amount & Type - Day & Peak Hours	48	E				EXHIBIT 23.A
B	Engineering Impact Analysis	48	W				WAIVER REQUESTED, SEE COVER LETTER
24. TECHNICAL & FINANCIAL CAPACITY 125-66 V							
A	Cost Estimate	48	E				EXHIBIT 24
B	Financing Arrangements	48	E				EXHIBIT 24
C	Curriculum Vita of Each Professional Assoc With Project	48	W				EXHIBIT 24
D	Descriptions of Similar Project by Developer	48	W				EXHIBIT 24
25. BUSINESS OPERATIONS 125-66 W							
A	Operating Statement & Mitigation Plan	48	W				WAIVER REQUESTED, SEE COVER LETTER
B	Employment & Operation Hours Projections	48	W				WAIVER REQUESTED, SEE COVER LETTER
C	Operator Information (if not owner)	49	E				EXHIBIT 25
26. MINING 125-66 X							
A	D.E.P. Permit where Applicable	49	W				WAIVER REQUESTED, SEE COVER LETTER

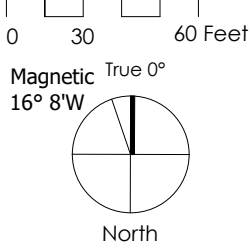
Bar Harbor Planning Department - Site Plan/Subdivision Application Checklist

Application #: SD-2022-03 Shore Cottages Subdivision Owner: Holiday Association of Naples Applicant Name: Same Applicant Rep/Consultant: Perry Moore		Page #	Exhibit Waiver (W)			Comments	Applicant to describe reasons why waiver should be granted §125-63
			PRE APP	App	PB		
B	Extraction Plan	49	W				WAIVER REQUESTED, SEE COVER LETTER
C	Restoration Plan	49	W				WAIVER REQUESTED, SEE COVER LETTER
D	Performance Guarantee for Restoration Plan	49	W				WAIVER REQUESTED, SEE COVER LETTER
E	Washing Operation Plans	49	W				WAIVER REQUESTED, SEE COVER LETTER
F	Evidence of Insurance	49	W				WAIVER REQUESTED, SEE COVER LETTER
Notes:							



Ocean Avenue
New York, NY 10011

Scale (1"=60')



property boundaries, building footprints and other basic site information depicted on these drawings have been derived from surveys prepared by: Edward B. Jackson Surveying LTD of Bar Harbor, Maine, dated May 1998 and titled "Bar Harbor Club" Additional field surveys provided by Pilgisa and Day Land Surveyors of Bangor, Maine from April 2001 through November 2007.

Abutting property information derived from Town of Bar Harbor records and tax maps. Locations of buildings on the south side of West Street were derived from aerial photographs and have not been field verified for size or location.

The Moore Companies assumes no responsibility for errors, omissions or inaccuracies that may be inherent to those surveys or plans.

Applicant:
Holiday Assoc. of Naples
1000 Market Street
Suite 202
Portsmouth NH, 03802-047

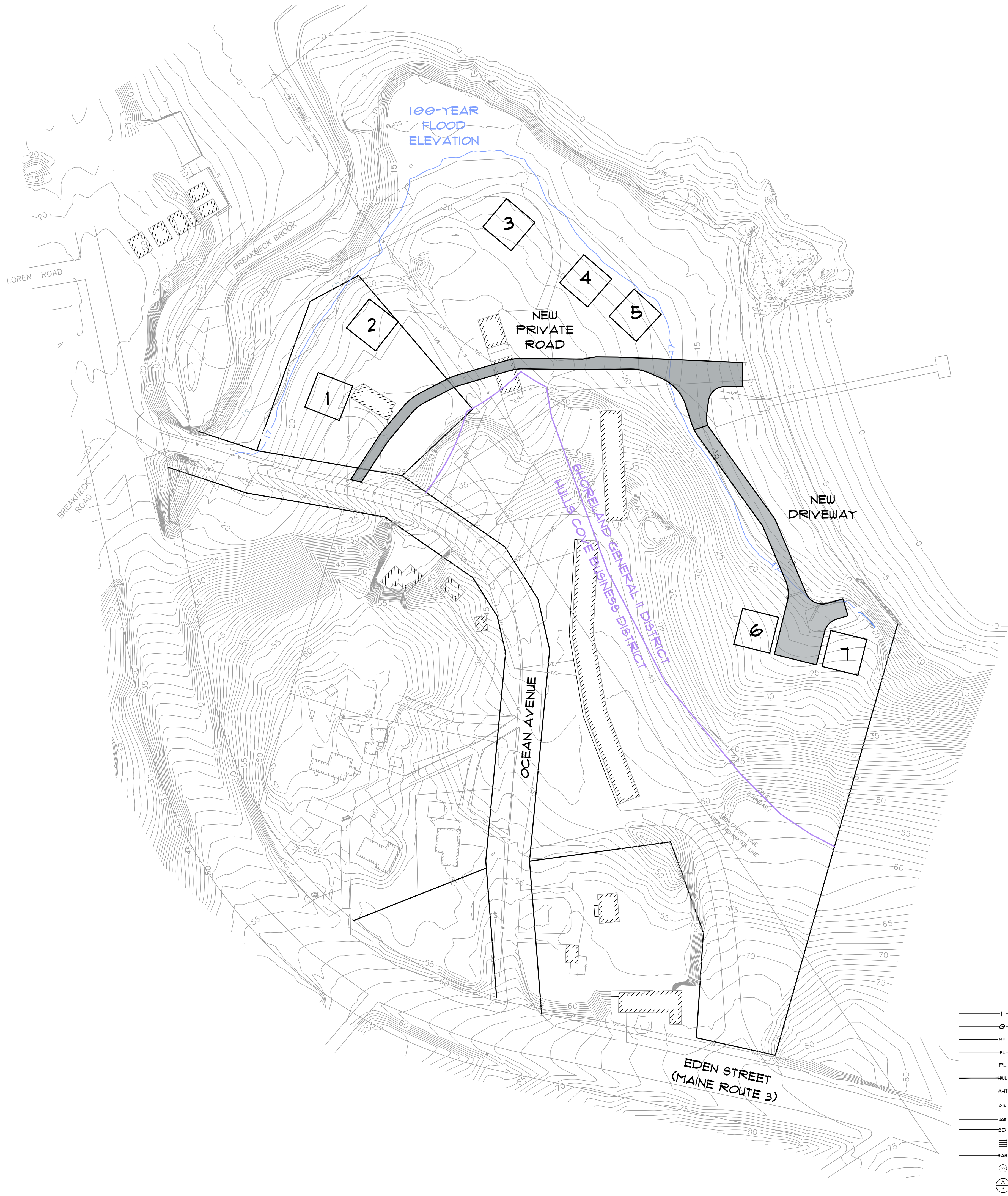
Subject properties are located in the Town of Bar Harbor, Hancock County, Maine and within the Halls Cove Business and Shoreland General Development II Districts.

Tax Map 224, Lot 022 and
Tax Map 223, Lot 013

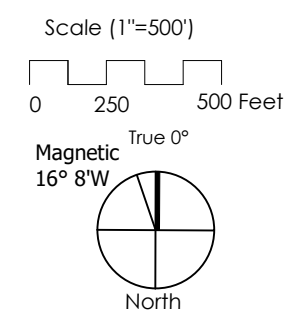
SKETCH PLAN
EXHIBIT I
-
SHORE COTTAGES
SKETCH PLAN

05.16.2022

THIS DRAWING IS INTENDED
FOR USE IN PERMITTING AND
SHALL NOT BE USED FOR
CONSTRUCTION.

[illegible]

Ocean Avenue
Bar Harbor ME



Property boundaries, building zones and other basic site information depicted on these drawings have been derived from surveys prepared by: Edward B. Jackson Surveying LTD of Bar Harbor, Maine, dated May 1998 and titled "Bar Harbor Club". Additional field surveys provided by Plisga and Day Land Surveyors of Bangor, Maine from April 2001 through November 2007.

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Applicant:
Holiday Assoc. of Naples
1000 Market Street
Suite 202
Portsmouth NH, 03802-0477

Subject properties are located in the Town of Bar Harbor, Hancock County, Maine and within the Halls Cove Business and Shoreland General Development II Districts.

Tax Map 224, Lot 022 and
Tax Map 223, Lot 013

SKETCH PLAN
EXHIBIT 1.1

ASSESSOR'S MAPS

05.16.2022

THIS DRAWING IS INTENDED
FOR USE IN PERMITTING AND
SHALL NOT BE USED FOR
CONSTRUCTION.

[illegible]

SKETCH PLAN EXHIBIT 2

05.12.2022

Applicant:

Holiday Associates of Naples, LLC
1000 Market Street, Building 1, Suite 300
Portsmouth NH 03801

Project Manager:

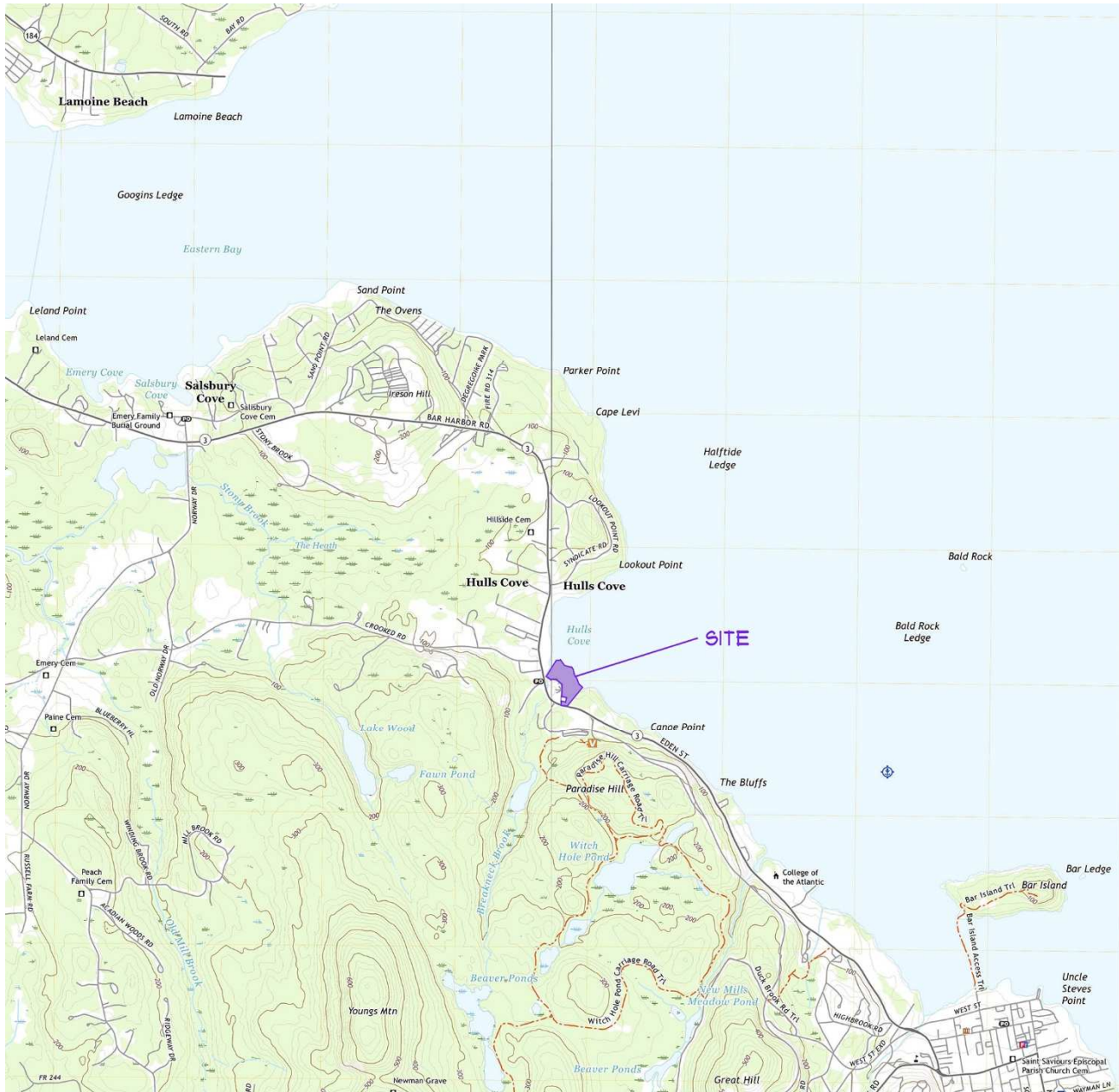
The Moore Companies
PO Box 120
Hulls Cove ME 04644

Project is entirely located in the
Town of Bar Harbor, Hancock
County, Maine, and is identified on
municipal tax map 224 lot 022 and
223-013

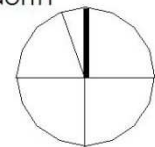
Zoning Districts:

Shoreland General II
Hulls Cove and Hulls Cove Business

Scale: 1"=4800 Feet



Magnetic North
16°W



North 0°



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Hancock County Area, Maine

**Park Entrance Motel - Shore
Cottages**



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.


Custom Soil Resource Report Soil Map



Custom Soil Resource Report


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole


 Slide or Slip


 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals


Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hancock County Area, Maine
Survey Area Data: Version 21, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 2, 2007—Jun 26, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
LaB	Lamoine silt loam, 3 to 8 percent slopes	0.4	1.9%
LuC	Lyman-Tunbridge complex, 0 to 15 percent slopes, very stony	17.1	77.6%
W	Water bodies	4.5	20.5%
Totals for Area of Interest		22.1	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The

Custom Soil Resource Report

delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Hancock County Area, Maine

LaB—Lamoine silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2t0kc

Elevation: 10 to 490 feet

Mean annual precipitation: 33 to 60 inches

Mean annual air temperature: 36 to 52 degrees F

Frost-free period: 90 to 160 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Lamoine and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lamoine

Setting

Landform: Marine terraces, river valleys

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Fine glaciomarine deposits

Typical profile

Ap - 0 to 7 inches: silt loam

Bw - 7 to 13 inches: silt loam

Bg - 13 to 24 inches: silty clay loam

Cg - 24 to 65 inches: silty clay

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)

Depth to water table: About 6 to 17 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)

Available water supply, 0 to 60 inches: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: C/D

Ecological site: F144BY401ME - Clay Flat

Hydric soil rating: No

LuC—Lyman-Tunbridge complex, 0 to 15 percent slopes, very stony

Map Unit Setting

National map unit symbol: 2ty4z

Elevation: 0 to 360 feet

Mean annual precipitation: 36 to 65 inches

Mean annual air temperature: 36 to 52 degrees F

Frost-free period: 60 to 160 days

Farmland classification: Not prime farmland

Map Unit Composition

Lyman, very stony, and similar soils: 40 percent

Tunbridge, very stony, and similar soils: 35 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lyman, Very Stony

Setting

Landform: Hills, mountains

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Mountaintop, mountainflank, mountainbase, side slope, crest

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy supraglacial till derived from granite and gneiss and/or loamy supraglacial till derived from phyllite and/or loamy supraglacial till derived from mica schist

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 3 inches: loam

E - 3 to 5 inches: fine sandy loam

Bhs - 5 to 7 inches: loam

Bs1 - 7 to 11 inches: loam

Bs2 - 11 to 18 inches: channery loam

R - 18 to 28 inches: bedrock

Properties and qualities

Slope: 0 to 15 percent

Surface area covered with cobbles, stones or boulders: 1.5 percent

Depth to restrictive feature: 11 to 24 inches to lithic bedrock

Drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 14.03 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Custom Soil Resource Report

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: D

Ecological site: F144BY702ME - Shallow and Moderately-deep Till

Hydric soil rating: No

Description of Tunbridge, Very Stony

Setting

Landform: Hills, mountains

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Mountaintop, mountainflank, mountainbase, side slope, crest

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy supraglacial till derived from granite and gneiss and/or loamy supraglacial till derived from phyllite and/or loamy supraglacial till derived from mica schist

Typical profile

Oe - 0 to 3 inches: moderately decomposed plant material

Oa - 3 to 5 inches: highly decomposed plant material

E - 5 to 8 inches: fine sandy loam

Bhs - 8 to 11 inches: fine sandy loam

Bs - 11 to 26 inches: fine sandy loam

BC - 26 to 28 inches: fine sandy loam

R - 28 to 38 inches: bedrock

Properties and qualities

Slope: 0 to 15 percent

Surface area covered with cobbles, stones or boulders: 1.5 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 14.03 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: C

Ecological site: F144BY702ME - Shallow and Moderately-deep Till

Hydric soil rating: No

W—Water bodies

Map Unit Composition

Water bodies: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Water Bodies

Setting

Landform: Lakes

Landform position (two-dimensional): Footslope

References

- American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.
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MLRA(S): 142, 143, 144A, 144B, 145

REV. PAR, 6-94

AERIC HAPLAQUEPTS, FINE, ILLITIC, NONACID, FRIGID

THE LAMOINE SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS ON LOWLANDS. THEY FORMED IN LACUSTRINE OR MARINE SEDIMENTS. TYPICALLY THESE SOILS HAVE A DARK BROWN SILT LOAM SURFACE LAYER 7 INCHES THICK. THE SUBSOIL TO 17 INCHES IS MOTTLED LIGHT OLIVE BROWN SILT LOAM TO MOTTLED LIGHT OLIVE BROWN SILTY CLAY LOAM AND FROM 17 TO 21 INCHES IS MOTTLED OLIVE SILTY CLAY LOAM. THE SUBSTRATUM TO 65 INCHES IS MOTTLED OLIVE SILTY CLAY. SLOPES RANGE FROM 0 TO 15 PERCENT.

LANDSCAPE AND CLIMATE PROPERTIES					
ANNUAL AIR TEMPERATURE	FROST FREE DAYS	ANNUAL PRECIPITATION	ELEVATION (FT)	DRAINAGE CLASS	SLOPE (PCT)
43-46	90-160	34-48	5-900	SP	0-15

ESTIMATED SOIL PROPERTIES (A)										
DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRACT. >10 IN (PCT)	FRACT. 3-10 IN (PCT)	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO.				CLAY (PCT)
0-7	SIL,SICL	ML,MH	A-4,A-5,A-7	0	0	98-100	95-100	95-100	85-100	15-30
7-17	SIL,SICL,SIC	ML,CL,MH	A-4,A-6,A-7	0	0	98-100	95-100	95-100	85-100	20-45
17-21	SIL,SICL,SIC	ML,CL,MH	A-4,A-6,A-7	0	0	98-100	95-100	95-100	85-100	20-45
21-65	SIC,SICL,C	CL,MH	A-6,A-7	0	0	98-100	95-100	95-100	90-100	35-55

DEPTH (IN.)	LIQUID LIMIT	PLASTICITY INDEX	MOIST BULK DENSITY (G/CM ³)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SAR	CEC (ME/100G)	CACO ₃ (PCT)	GYPSUM (PCT)
0-7	36-55	5-15	0.90-1.20	0.2-2.0	0.25-0.30	4.5-6.5	0-0	0-0	7-16	0-0	0-0
7-17	28-55	8-25	1.10-1.55	0.06-0.6	0.13-0.28	5.1-7.3	0-0	0-0	7-17	0-0	0-0
17-21	28-55	8-25	1.40-1.80	0.0-0.2	0.10-0.16	5.1-7.3	0-0	0-0	7-15	0-0	0-0
21-65	30-60	10-25	1.40-1.80	0.0-0.2	0.06-0.16	5.6-7.3	0-0	0-0	3-15	0-0	0-0

DEPTH (IN.)	ORGANIC MATTER (PCT)	SHRINK-SWELL POTENTIAL	EROSION FACTORS	WIND EROD. GROUP	WIND EROD. INDEX	CORROSIVITY
0-7	3-8	LOW	.32 .32 3	6	48	HIGH MODERATE
7-17	.5-3	MODERATE	.49 .49			
17-21	0-1	MODERATE	.49 .49			
21-65	0-.5	MODERATE	.49 .49			

FLOODING			HIGH WATER TABLE			CEMENTED PAN		BEDROCK		SUBSIDENCE		HYD	POTENTIAL
FREQUENCY	DURATION	MONTHS	DEPTH (FT)	KIND	MONTHS	DEPTH (IN)	HARDNESS	DEPTH (IN)	HARDNESS	INIT. (IN)	TOTAL (IN)	GRP	FROST ACTION
NONE			0.5-1.5	PERCHED	NOV-JUN			>60				D	HIGH

SANITARY FACILITIES (B)		CONSTRUCTION MATERIAL (B)	
SEPTIC TANK ABSORPTION FIELDS	SEVERE-WETNESS, PERCS SLOWLY	ROADFILL	POOR-LOW STRENGTH, WETNESS
SEWAGE LAGOON AREAS	0-2%: SLIGHT 2-7%: MODERATE-SLOPE 7-15%: SEVERE-SLOPE	SAND	IMPROBABLE-EXCESS FINES
SANITARY LANDFILL (TRENCH)	SEVERE-WETNESS, TOO CLAYEY	GRAVEL	IMPROBABLE-EXCESS FINES
SANITARY LANDFILL (AREA)	SEVERE-WETNESS	TOPSOIL	POOR-TOO CLAYEY, WETNESS
DAILY COVER FOR LANDFILL	POOR-TOO CLAYEY, HARD TO PACK, WETNESS	WATER MANAGEMENT (B)	
		POND RESERVOIR AREA	0-3%: SLIGHT 3-8%: MODERATE-SLOPE 8-15%: SEVERE-SLOPE
BUILDING SITE DEVELOPMENT (B)			
SHALLOW EXCAVATIONS	SEVERE-WETNESS	EMBANKMENTS DIKES AND LEVEES	SEVERE-HARD TO PACK, WETNESS
DWELLINGS WITHOUT BASEMENTS	SEVERE-WETNESS	EXCAVATED PONDS AQUIFER FED	SEVERE-NO WATER
DWELLINGS WITH BASEMENTS	SEVERE-WETNESS	DRAINAGE	0-3%: PERCS SLOWLY, FROST ACTION 3-15%: PERCS SLOWLY, FROST ACTION, SLOPE
SMALL COMMERCIAL BUILDINGS	0-8%: SEVERE-WETNESS 8-15%: SEVERE-WETNESS, SLOPE	IRRIGATION	0-3%: WETNESS, PERCS SLOWLY 3-15%: SLOPE, WETNESS, PERCS SLOWLY
LOCAL ROADS AND STREETS	SEVERE-LOW STRENGTH, WETNESS, FROST ACTION	TERRACES AND DIVERSIONS	0-8%: ERODES EASILY, WETNESS 8-15%: SLOPE, ERODES EASILY, WETNESS
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	SEVERE-WETNESS	GRASSED WATERWAYS	0-8%: WETNESS, ERODES EASILY 8-15%: WETNESS, SLOPE, ERODES EASILY

RECREATIONAL DEVELOPMENT (B)

CAMP AREAS	SEVERE-WETNESS, PERCS SLOWLY	PLAYGROUNDS	0-6%: SEVERE-WETNESS, PERCS SLOWLY
			6-15%: SEVERE-SLOPE, WETNESS, PERCS SLOWLY
PICNIC AREAS	SEVERE-WETNESS, PERCS SLOWLY	PATHS AND TRAILS	SEVERE-WETNESS

REGIONAL INTERPRETATIONS

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CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

CLASS- DETERMINING PHASE	CAPA- BILITY	CORN		ALFALFA		GRASS- LEGUME HAY		GRASS HAY		PASTURE					
		SILAGE	(TONS)	HAY	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(AUM)					
		NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
0-3%	3W		20		3.0		3.0		3.5		5.5				
3-8%	3W		22		3.5		3.5		4.0		6.5				
8-15%	3E		20		3.5		3.5		4.0		6.5				
8-15% ERODED	4E		18		3.0		3.0		3.5		6.0				

WOODLAND SUITABILITY (C)

WOODLAND SUITABILITY (C)												
CLASS- DETERMINING PHASE	ORD	MANAGEMENT PROBLEMS					POTENTIAL PRODUCTIVITY				TREES TO PLANT	
	SYM	EROS'N	EQUIP.	SEEDL.	WINDTH	PLANT	COMMON TREES		SITE	PROO		
		HAZARD	LIMIT	MORT'Y	HAZARD	COMPET			INDX	CLAS		
0-15%	8W	SLIGHT	MODER.	SLIGHT	SEVERE	SEVERE	EASTERN WHITE PINE	65	8	EASTERN WHITE PINE		
							BALSAM FIR	55	8	NORTHERN WHITECEDAR		
							PAPER BIRCH	58	4	BLACK SPRUCE		
							WHITE SPRUCE	55	9			
							EASTERN HEMLOCK					
							RED SPRUCE	45	7			
							RED MAPLE	58	3			
							YELLOW BIRCH	50	2			
							SUGAR MAPLE	50	2			
							GRAY BIRCH					
							QUAKING ASPEN					
							BIGTOOTH ASPEN					

AERIC HAPLAQUEPTS, FINE, ILLITIC, NONACID, FRIGID

FLOODING			HIGH WATER TABLE			CEMENTED PAN		BEDROCK		SUBSIDENCE		HYD	POTENTIAL
FREQUENCY	DURATION	MONTHS	DEPTH (FT)	KIND	MONTHS	DEPTH (IN)	HARDNESS	DEPTH (IN)	HARDNESS	INIT. (IN)	TOTAL (IN)	GRP	FROST ACTION
NONE			0.5-1.5	PERCHED	NOV-JUN			>60				D	HIGH

SANITARY FACILITIES		CONSTRUCTION MATERIAL	
SEPTIC TANK ABSORPTION FIELDS	SEVERE-WETNESS, PERCS SLOWLY	ROADFILL	POOR-LOW STRENGTH, WETNESS
SEWAGE LAGOON AREAS	0-2%: SLIGHT 2-7%: MODERATE-SLOPE 7-15%: SEVERE-SLOPE	SAND	IMPROBABLE-EXCESS FINES
SANITARY LANDFILL (TRENCH)	SEVERE-WETNESS, TOO CLAYEY	GRAVEL	IMPROBABLE-EXCESS FINES
SANITARY LANDFILL (AREA)	SEVERE-WETNESS	TOPSOIL	POOR-TOO CLAYEY, WETNESS
DAILY COVER FOR LANDFILL	POOR-TOO CLAYEY, HARD TO PACK, WETNESS	WATER MANAGEMENT	
		POND RESERVOIR AREA	0-3%: SLIGHT 3-8%: MODERATE-SLOPE 8-15%: SEVERE-SLOPE
BUILDING SITE DEVELOPMENT			
SHALLOW EXCAVATIONS	SEVERE-WETNESS	EMBANKMENTS DIKES AND LEVEES	SEVERE-HARD TO PACK, WETNESS
DWELLINGS WITHOUT BASEMENTS	SEVERE-WETNESS	EXCAVATED PONDS AQUIFER FED	SEVERE-NO WATER
DWELLINGS WITH BASEMENTS	SEVERE-WETNESS	DRAINAGE	0-3%: PERCS SLOWLY, FROST ACTION 3-15%: PERCS SLOWLY, FROST ACTION, SLOPE
SMALL COMMERCIAL BUILDINGS	0-8%: SEVERE-WETNESS 8-15%: SEVERE-WETNESS, SLOPE	IRRIGATION	0-3%: WETNESS, PERCS SLOWLY 3-15%: SLOPE, WETNESS, PERCS SLOWLY
LOCAL ROADS AND STREETS	SEVERE-LOW STRENGTH, WETNESS, FROST ACTION	TERRACES AND DIVERSIONS	0-8%: ERODES EASILY, WETNESS 8-15%: SLOPE, ERODES EASILY, WETNESS
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	SEVERE-WETNESS	GRASSED WATERWAYS	0-8%: WETNESS, ERODES EASILY 8-15%: WETNESS, SLOPE, ERODES EASILY

LA MOINE SERIES
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RECREATIONAL DEVELOPMENT

CAMP AREAS	SEVERE-WETNESS, PERCS SLOWLY	PLAYGROUNDS	0-6%: SEVERE-LARGE STONES, WETNESS
			6-15%: SEVERE-LARGE STONES, SLOPE, WETNESS
PICNIC AREAS	SEVERE-WETNESS, PERCS SLOWLY	PATHS AND TRAILS	SEVERE-WETNESS

REGIONAL INTERPRETATIONS

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CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)																
CLASS- DETERMINING PHASE	CAPA- BILITY	PASTURE														
		(AUM)														
	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
ALL	6S		5.5													

WOODLAND SUITABILITY (C)

WOODLAND SUITABILITY (C)										
CLASS- DETERMINING PHASE	ORD SYM	MANAGEMENT PROBLEMS					POTENTIAL PRODUCTIVITY			TREES TO PLANT
		EROS'N	EQUIP.	SEEDL.	WINDTH	PLANT	COMMON TREES	SITE	PROD	
		HAZARD	LIMIT	MORT'Y	HAZARD	COMPET		INDX	CLAS	
ALL	8W	SLIGHT	MOODER.	SLIGHT	SEVERE	SEVERE	EASTERN WHITE PINE	65	8	EASTERN WHITE PINE
							BALSAM FIR	55	8	NORTHERN WHITECEDAR
							PAPER BIRCH	58	4	BLACK SPRUCE
							WHITE SPRUCE	55	9	
							EASTERN HEMLOCK			
							RED SPRUCE	45	7	
							RED MAPLE	58	3	
							YELLOW BIRCH	50	2	
							SUGAR MAPLE	50	2	
							GRAY BIRCH			
							QUAKING ASPEN			
							BIGTOOTH ASPEN			

CLASS-DETERMIN'G PHASE	WINDBREAKS							
	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

CLASS- DETERMINING PHASE	POTENTIAL FOR HABITAT ELEMENTS												POTENTIAL AS HABITAT FOR:			
	GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW WATER	OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	RANGELD WILDLF				
	0-2%	V. POOR	POOR	GOOD	GOOD	GOOD		FAIR	FAIR	POOR	GOOD	FAIR				
2-3%	V. POOR	POOR	GOOD	GOOD	GOOD		FAIR	POOR	POOR	GOOD	POOR					
3-5%	V. POOR	POOR	GOOD	GOOD	GOOD		POOR	V. POOR	POOR	GOOD	V. POOR					
5-8%	V. POOR	POOR	GOOD	GOOD	GOOD		POOR	V. POOR	POOR	GOOD	V. POOR					
8-15%	V. POOR	POOR	GOOD	GOOD	GOOD		V. POOR	V. POOR	POOR	GOOD	V. POOR					

COMMON PLANT NAME	PLANT SYMBOL (NLSFN)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE					
POTENTIAL PRODUCTION (LBS./AC. DRY WT):							
FAVORABLE YEARS							
NORMAL YEARS							
UNFAVORABLE YEARS							

A ESTIMATED SOIL PROPERTIES BASED ON TEST DATA FROM 10 PEDONS IN MAINE AND 2 PEDONS IN NEW HAMPSHIRE.
B RATINGS BASED ON NATIONAL SOILS HANDBOOK, PART 603, JUL 1983.
C RATINGS BASED ON NATIONAL FORESTRY MANUAL, PART 537, SEP 1980.
D RATINGS BASED ON SOILS MEMORANDUM 74, JAN 1972.

MLRA(S): 142, 143, 144A, 144B, 145

EV. PAH, 6-94

AERIC HAPLAQUEPTS, FINE, ILLITIC, NONACID, FRIGID

THE LAMOINE SERIES CONSISTS OF VERY DEEP, SOMEWHAT POORLY DRAINED SOILS ON LOWLANDS. THEY FORMED IN LACUSTRINE OR MARINE SEDIMENTS. TYPICALLY THESE SOILS HAVE A DARK BROWN SILT LOAM SURFACE LAYER 7 INCHES THICK. THE SUBSOIL TO 17 INCHES IS MOTTLED LIGHT OLIVE BROWN SILT LOAM TO MOTTLED LIGHT OLIVE BROWN SILTY CLAY LOAM AND FROM 17 TO 21 INCHES IS MOTTLED OLIVE SILTY CLAY LOAM. THE SUBSTRATUM TO 65 INCHES IS MOTTLED OLIVE SILTY CLAY. SLOPES RANGE FROM 0 TO 15 PERCENT.

LANDSCAPE AND CLIMATE PROPERTIES					
ANNUAL AIR TEMPERATURE	FROST FREE DAYS	ANNUAL PRECIPITATION	ELEVATION (FT)	DRAINAGE CLASS	SLOPE (PCT)
43-46	90-160	34-48	5-900	SP	0-15

ESTIMATED SOIL PROPERTIES (A)										
DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRACT. >10 IN (PCT)	FRACT. 3-10 IN (PCT)	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO.				CLAY (PCT)
						4	10	40	200	
0-7	SIL,SICL	ML,MH	A-4,A-5,A-7	0	0	98-100	95-100	95-100	85-100	15-30
7-17	SIL,SICL,SIC	ML,CL,MH	A-4,A-6,A-7	0	0	98-100	95-100	95-100	85-100	20-45
17-21	SIL,SICL,SIC	ML,CL,MH	A-4,A-6,A-7	0	0	98-100	95-100	95-100	85-100	20-45
21-65	SIC,SICL,C	CL,MH	A-6,A-7	0	0	98-100	95-100	95-100	90-100	35-55

DEPTH (IN.)	LIQUID LIMIT	PLASTICITY INDEX	MOIST BULK DENSITY (G/CM ³)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SAR	CEC (ME/100G)	CACO ₃ (PCT)	GYPSUM (PCT)
0-7	36-55	5-15	0.90-1.20	0.2-2.0	0.25-0.30	4.5-6.5	0-0	0-0	7-16	0-0	0-0
7-17	28-55	8-25	1.10-1.55	0.06-0.6	0.13-0.28	5.1-7.3	0-0	0-0	7-17	0-0	0-0
17-21	28-55	8-25	1.40-1.80	0.0-0.2	0.10-0.16	5.1-7.3	0-0	0-0	7-15	0-0	0-0
21-65	30-60	10-25	1.40-1.80	0.0-0.2	0.06-0.16	5.6-7.3	0-0	0-0	3-15	0-0	0-0

DEPTH (IN.)	ORGANIC MATTER (PCT)	SHRINK-SWELL POTENTIAL	EROSION FACTORS			WIND EROD. GROUP	WIND EROD. INDEX	CORROSIVITY	
			K	Kf	T			STEEL	CONCRETE
0-7	3-8	LOW	.32	.32	3	6	48	HIGH	MODERATE
7-17	.5-3	MODERATE	.49	.49					
17-21	0-1	MODERATE	.49	.49					
21-65	0-.5	MODERATE	.49	.49					

FLOODING			HIGH WATER TABLE			CEMENTED PAN		BEDROCK		SUBSIDENCE		HYD	POTENT'L
FREQUENCY	DURATION	MONTHS	DEPTH (FT)	KIND	MONTHS	DEPTH (IN)	HARDNESS	DEPTH (IN)	HARDNESS	INIT. (IN)	TOTAL (IN)	GRP	FROST ACTION
NONE			0.5-1.5	PERCHED	NOV-JUN			>60				D	HIGH

SANITARY FACILITIES (B)		CONSTRUCTION MATERIAL (B)	
SEPTIC TANK ABSORPTION FIELDS	SEVERE-WETNESS, PERCS SLOWLY	ROADFILL	POOR-LOW STRENGTH, WETNESS
SEWAGE LAGOON AREAS	0-2%: SLIGHT 2-7%: MODERATE-SLOPE 7-15%: SEVERE-SLOPE	SAND	IMPROBABLE-EXCESS FINES
SANITARY LANDFILL (TRENCH)	SEVERE-WETNESS, TOO CLAYEY	GRAVEL	IMPROBABLE-EXCESS FINES
SANITARY LANDFILL (AREA)	SEVERE-WETNESS	TOPSOIL	POOR-TOO CLAYEY, WETNESS
DAILY COVER FOR LANDFILL	POOR-TOO CLAYEY, HARD TO PACK, WETNESS	WATER MANAGEMENT (B)	
		POND RESERVOIR AREA	0-3%: SLIGHT 3-8%: MODERATE-SLOPE 8-15%: SEVERE-SLOPE
BUILDING SITE DEVELOPMENT (B)			
SHALLOW EXCAVATIONS	SEVERE-WETNESS	EMBANKMENTS DIKES AND LEVEES	SEVERE-HARD TO PACK, WETNESS
DWELLINGS WITHOUT BASEMENTS	SEVERE-WETNESS	EXCAVATED PONDS AQUIFER FED	SEVERE-NO WATER
DWELLINGS WITH BASEMENTS	SEVERE-WETNESS	DRAINAGE	0-3%: PERCS SLOWLY, FROST ACTION 3-15%: PERCS SLOWLY, FROST ACTION, SLOPE
SMALL COMMERCIAL BUILDINGS	0-8%: SEVERE-WETNESS 8-15%: SEVERE-WETNESS, SLOPE	IRRIGATION	0-3%: WETNESS, PERCS SLOWLY 3-15%: SLOPE, WETNESS, PERCS SLOWLY
LOCAL ROADS AND STREETS	SEVERE-LOW STRENGTH, WETNESS, FROST ACTION	TERRACES AND DIVERSIONS	0-8%: ERODES EASILY, WETNESS 8-15%: SLOPE, ERODES EASILY, WETNESS
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	SEVERE-WETNESS	GRASSED WATERWAYS	0-8%: WETNESS, ERODES EASILY 8-15%: WETNESS, SLOPE, ERODES EASILY

LAMOINE SERIES

RECREATIONAL DEVELOPMENT (B)

CAMP AREAS	SEVERE-WETNESS, PERCS SLOWLY	PLAYGROUNDS	0-6%: SEVERE-WETNESS, PERCS SLOWLY
			6-15%: SEVERE-SLOPE, WETNESS, PERCS SLOWLY
PICNIC AREAS	SEVERE-WETNESS, PERCS SLOWLY	PATHS AND TRAILS	SEVERE-WETNESS

REGIONAL INTERPRETATIONS

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CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

CLASS- DETERMINING PHASE	CAPA- BILITY		CORN SILAGE (TONS)		ALFALFA HAY (TONS)		GRASS- LEGUME HAY (TONS)		GRASS HAY (TONS)		PASTURE (AUM)					
	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
0-3%	3W		20		3.0		3.0		3.5		5.5					
3-8%	3W		22		3.5		3.5		4.0		6.5					
8-15%	3E		20		3.5		3.5		4.0		6.5					
8-15% ERODED	4E		18		3.0		3.0		3.5		6.0					

WOODLAND SUITABILITY (C)

WOODLAND SUITABILITY (C)										
CLASS- DETERMINING PHASE	ORD SYM	MANAGEMENT PROBLEMS					POTENTIAL PRODUCTIVITY			TREES TO PLANT
		EROS'N HAZARD	EQUIP. LIMIT	SEEDL. MORT'Y	WINDTH HAZARD	PLANT COMPET	COMMON TREES	SITE INDX	PROD CLAS	
0-15%	8W	SLIGHT	MODER.	SLIGHT	SEVERE	SEVERE	EASTERN WHITE PINE	65	8	EASTERN WHITE PINE
							BALSAM FIR	55	8	NORTHERN WHITECEDAR
							PAPER BIRCH	58	4	BLACK SPRUCE
							WHITE SPRUCE	55	9	
							EASTERN HEMLOCK			
							RED SPRUCE	45	7	
							RED MAPLE	58	3	
							YELLOW BIRCH	50	2	
							SUGAR MAPLE	50	2	
							GRAY BIRCH			
							QUAKING ASPEN			
							BIGTOOTH ASPEN			

		WINDBREAKS							
CLASS-DETERMIN'G PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT	
	NONE								

WILDLIFE HABITAT SUITABILITY (D)												
CLASS- DETERMINING PHASE	POTENTIAL FOR HABITAT ELEMENTS							POTENTIAL AS HABITAT FOR:				
	GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW WATER	OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	RANGELD WILDLF
0-2%	FAIR	GOOD	GOOD	GOOD	GOOD		FAIR	FAIR	GOOD	GOOD	FAIR	
2-3%	FAIR	GOOD	GOOD	GOOD	GOOD		FAIR	POOR	GOOD	GOOD	POOR	
3-8%	FAIR	GOOD	GOOD	GOOD	GOOD		POOR	V. POOR	GOOD	GOOD	V. POOR	
8-15%	FAIR	GOOD	GOOD	GOOD	GOOD		V. POOR	V. POOR	GOOD	GOOD	V. POOR	

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)						
COMMON PLANT NAME	PLANT SYMBOL (NLSPN)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE				
POTENTIAL PRODUCTION (LBS./AC. DRY WT):						
FAVORABLE YEARS						
NORMAL YEARS						
UNFAVORABLE YEARS						

FOOTNOTES

A ESTIMATED SOIL PROPERTIES BASED ON TEST DATA FROM 10 PEDONS IN MAINE AND 2 PEDONS IN NEW HAMPSHIRE.

B RATINGS BASED ON NATIONAL SOILS HANDBOOK, PART 603.

C RATINGS BASED ON NATIONAL FORESTRY MANUAL, PART 537, SEPT. 1980.

D RATINGS BASED ON SOILS MEMORANDUM 74, JAN 1972.

MA0079

SOIL INTERPRETATIONS RECORD

LYMAN SERIES
STONY

MLRA(S): 143, 144A, 144B

HEW,KHL, 5-86

LITHIC HAPLORHODS, LOAMY, MIXED, FRIGID

THE LYMAN SERIES CONSISTS OF SHALLOW, SOMEWHAT EXCESSIVELY-DRAINED SOILS ON UPLANDS. THEY FORMED IN GLACIAL TILL. TYPICALLY, THESE SOILS HAVE A BLACK VERY STONY LOAM SURFACE LAYER 2 INCHES THICK AND A REDDISH GRAY FINE SANDY LOAM SUBSURFACE LAYER FROM 2 TO 4 INCHES. THE SUBSOILS, FROM 4 TO 6 INCHES ARE VERY DUSKY RED LOAM, FROM 6 TO 12 INCHES ARE DARK RED LOAM, AND FROM 10 TO 17 INCHES ARE DARK BROWN LOAM. BEDROCK IS AT A DEPTH OF 17 INCHES. SLOPES RANGE FROM 3 TO 80 PERCENT.

LANDSCAPE AND CLIMATE PROPERTIES

ANNUAL AIR TEMPERATURE	FROST FREE DAYS	ANNUAL PRECIPITATION	ELEVATION (FT)	DRAINAGE CLASS	SLOPE (PCT)
				SE	3-80

ESTIMATED SOIL PROPERTIES (A)

DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRAC. > 10 IN	FRAC. 3 IN	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO.	CLAY
				(PCT)	(PCT)	4 10 40 200	(PCT)
0-6	ISTV-L, STV-FSL, STV-SILISM, ML, GM		1A-1, A-2, A-4	5-20	165-95	60-90 35-80 15-75	2-10
0-6	ISTX-L, STX-FSL, STX-SILISM, ML, GM		1A-1, A-2, A-4	10-30	165-95	55-90 30-75 15-70	2-10
6-17	IL, CN-FSL, SIL	ISM, ML, GM	1A-1, A-2, A-4	0-20	165-95	60-90 35-85 20-80	2-10
17	UWB						

DEPTH (IN.)	LIQUID LIMIT	PLASTICITY INDEX	MOIST DENSITY (G/CM3)	BULK DENSITY	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SAR	CEC (ME/100B)	CAC03 (PCT)	GYP SUM (PCT)
0-6	<30	INP-6	0.75-1.20	2.0-6.0	0.13-0.24	3.6-6.0	-					
0-6	<30	INP-6	0.75-1.20	2.0-6.0	0.11-0.23	3.6-6.0	-					
6-17	<30	INP-4	0.90-1.40	2.0-6.0	0.08-0.28	3.6-6.0	-					
17												

DEPTH (IN.)	ORGANIC MATTER (PCT)	SHRINK-SWELL (POTENTIAL)	EROSION FACTORS (K, T, GROUP)	WIND EROD. INDEX	CORROSION (STEEL, CONCRETE)
0-6	-	LOW	1.20 2	-	LOW HIGH
0-6	-	LOW	1.20 2	-	
6-17		LOW	1.32		
17					

FLOODING			HIGH WATER TABLE		CEMENTED PAN		BEDROCK		SUBSIDENCE				HYDROLYZABLE	
FREQUENCY	DURATION	MONTHS	DEPTH (FT)	KIND	MONTHS	DEPTH (IN)	HARDNESS	DEPTH (IN)	HARDNESS	INIT. (IN)	TOTAL (IN)	BRP	FROST ACTION	
NONE			>6.0			-		10-20	HARD	-			C/D/MODERATE	

LYMAN SERIES
STONY

MA0079

SANITARY FACILITIES (B)

CONSTRUCTION MATERIAL (B)

SEPTIC TANK	3-15%: SEVERE-DEPTH TO ROCK	ROADFILL	3-25%: POOR-DEPTH TO ROCK
ABSORPTION FIELDS	15+%: SEVERE-SLOPE,DEPTH TO ROCK		25+%: POOR-DEPTH TO ROCK,SLOPE

SEWAGE LAGOON AREAS	3-7%: SEVERE-DEPTH TO ROCK	SAND	IMPROBABLE-EXCESS FINES
	7+%: SEVERE-SLOPE,DEPTH TO ROCK		

SANITARY LANDFILL (TRENCH)	3-15%: SEVERE-DEPTH TO ROCK	GRAVEL	IMPROBABLE-EXCESS FINES
	15+%: SEVERE-SLOPE,DEPTH TO ROCK		

SANITARY LANDFILL (AREA)	3-15%: SEVERE-DEPTH TO ROCK,SEEPAGE	TOPSOIL	3-15%: POOR-DEPTH TO ROCK,SMALL STONES
	15+%: SEVERE-DEPTH TO ROCK,SEEPAGE,SLOPE		15+%: POOR-DEPTH TO ROCK,SMALL STONES,SLOPE

DAILY COVER FOR LANDFILL	3-15%: POOR-DEPTH TO ROCK		WATER MANAGEMENT (B)
	15+%: POOR-DEPTH TO ROCK,SLOPE	POND RESERVOIR AREA	3-8%: SEVERE-DEPTH TO ROCK
			8+%: SEVERE-DEPTH TO ROCK,SLOPE

BUILDING SITE DEVELOPMENT (B)

SHALLOW EXCAVATIONS	3-15%: SEVERE-DEPTH TO ROCK	EMBANKMENTS	SEVERE-THIN LAYER,PIPING
	15+%: SEVERE-DEPTH TO ROCK,SLOPE	DIKES AND LEVEES	

DWELLINGS WITHOUT BASEMENTS	3-15%: SEVERE-DEPTH TO ROCK	EXCAVATED PONDS	SEVERE-NO WATER
	15+%: SEVERE-SLOPE,DEPTH TO ROCK	AQUIFER FED	

DWELLINGS WITH BASEMENTS	3-15%: SEVERE-DEPTH TO ROCK	DRAINAGE	DEEP TO WATER
	15+%: SEVERE-DEPTH TO ROCK,SLOPE		

SMALL COMMERCIAL BUILDINGS	3-8%: SEVERE-DEPTH TO ROCK	IRRIGATION	DROUGHTY,DEPTH TO ROCK,SLOPE
	8+%: SEVERE-DEPTH TO ROCK,SLOPE		

LOCAL ROADS AND STREETS	3-15%: SEVERE-DEPTH TO ROCK	TERRACES AND DIVERSIONS	3-8% STV: DEPTH TO ROCK
	15+%: SEVERE-DEPTH TO ROCK,SLOPE		8+% STV: SLOPE,DEPTH TO ROCK
			3-8% STX: DEPTH TO ROCK,LARGE STONES
			8+% STX: SLOPE,DEPTH TO ROCK,LARGE STONES

LAWNS, LANDSCAPING AND GOLF FAIRWAYS	3-15%: SEVERE-DEPTH TO ROCK	GRASSED WATERWAYS	3-8% STV: DROUGHTY,DEPTH TO ROCK
	15+%: SEVERE-SLOPE,DEPTH TO ROCK		8+% STV: SLOPE,DROUGHTY,DEPTH TO ROCK
			3-8%STX: LARGE STONES,DROUGHTY,DEPTH TO ROCK
			8+% STX: LARGE STONES,SLOPE,DEPTH TO ROCK

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NTNE

WILDLIFE HABITAT SUITABILITY (D)

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

POTENTIAL PRODUCTION (LBS./AC. DRY WT):

FOOTNOTES

- A BASED ON ENGINEERING PROPERTIES OF SIMILAR SOILS.
B RATINGS BASED ON NATIONAL SOIL HANDBOOK, SECTION 603
C RATINGS BASED ON NATIONAL FORESTRY MANUAL
* SITE INDEX IS A SUMMARY OF 5 OR MORE MEASUREMENTS ON THIS SOIL.
D RATINGS BASED ON SOILS MEMO 74, JANUARY 1972
* SITE INDEX IS A SUMMARY OF 5 OR MORE MEASUREMENTS ON THIS SOIL.

VT0075

SOIL INTERPRETATIONS RECORD

TUNBRIDGE SERIES

STONY

MLRA(S): 143, 144A, 144B

REV. SHG, GWS, 9-90

TYPIC MAPLORHODS, COARSE-LOAMY, MIXED, FRIGID

THE TUNBRIDGE VERY STONY AND EXTREMELY STONY PHASES CONSISTS OF MODERATELY DEEP, WELL DRAINED SOILS THAT FORMED IN LOAMY GLACIAL TILL. STONES COVER 0.1 TO 15 PERCENT OF THE SURFACE. TYPICALLY, THESE SOILS HAVE A FINE SANDY LOAM SURFACE LAYER, 2 INCHES THICK. THE SUBSURFACE LAYER IS FINE SANDY LOAM, 1 INCH THICK. THE SUBSOIL IS 11 INCHES THICK. THE UPPER PART IS LOAM. THE LOWER PART IS SILT LOAM. THE SUBSTRATUM IS FINE SANDY LOAM, 14 INCHES THICK. MICA SCHIST AND GNEISS BEDROCK IS AT 28 INCHES. SLOPES RANGE FROM 0 TO 75 PERCENT.

LANDSCAPE AND CLIMATE PROPERTIES

ANNUAL AIR TEMPERATURE	FROST FREE DAYS	ANNUAL PRECIPITATION	ELEVATION (FT)	DRAINAGE CLASS	SLOPE (PCT)
40-44	90-135	35-50	500-1750	W	0-75

ESTIMATED SOIL PROPERTIES (A)

DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRAC. >10 IN	FRAC. 3-10 IN	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO.	CLAY (PCT)
0-3	STV-BIL, STV-L	ISM, ML, GM	1A-4, A-2	0-2	5-25	155-100 50-95 40-95 30-85	5-9
0-3	STV-VFSL, STV-FSL	ISM, ML, GM	1A-4, A-2	0-2	5-25	155-100 50-95 35-90 20-60	5-9
0-3	STX-BIL, STX-L, STX-FSL	ISM, ML, GM	1A-4, A-2	0-2	10-35	165-100 60-95 40-95 25-85	5-9
3-14	BIL, GR-FSL, CN-FSL	ISM, ML	1A-5, A-2	0-2	0-15	170-100 65-95 45-95 25-85	3-9
14-28	BIL, GR-FSL, CN-FSL	ISM, ML	1A-2, A-4	0-2	0-15	170-100 65-95 45-95 25-85	3-7
28	UWB						

DEPTH (IN.)	LIQUID LIMIT	PLASTICITY INDEX	MOIST BULK DENSITY (G/CM3)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SAR	CEC (ME/100G)	CAC03 (PCT)	GYP SUM (PCT)
0-3	<20	INP-2	0.80-1.20	0.6-6.0	0.11-0.20	3.6-6.0	-	-	20-50	-	-
0-3	<20	INP-2	0.80-1.20	0.6-6.0	0.11-0.21	3.6-6.0	-	-	20-50	-	-
0-3	<20	INP-2	0.80-1.20	0.6-6.0	0.10-0.19	3.6-6.0	-	-	5-25	-	-
3-14	<50	INP-6	1.20-1.40	0.6-6.0	0.10-0.21	3.6-6.0	-	-	5-15	-	-
14-28	<20	INP-2	1.20-1.50	0.6-6.0	0.09-0.15	5.1-6.5	-	-	-	-	-
28											

DEPTH (IN.)	ORGANIC MATTER	SHRINK-SWELL	EROSION FACTOR	WIND EROD.	WIND EROD.	CORROSIVITY	STEEL	CONCRETE
0-3	2-8	LOW	1.20	2	-	-	HIGH	HIGH
0-3	2-8	LOW	1.20	2	-	-		
0-3	2-8	LOW	1.17	2	-	-		
3-14	2-6	LOW	1.20					
14-28	1-2	LOW	1.20					
28								

FLOODING			HIGH WATER TABLE			CEMENTED PAN	BEDROCK	SUBSIDENCE	HYDROLYTIC				
FREQUENCY	DURATION	MONTHS	DEPTH (FT)	KIND	MONTHS	DEPTH (IN)	HARDNESS	DEPTH (IN)	HARDNESS	INIT. (IN)	TOTAL (IN)	GRP	FROST ACTION
NONE			>6.0			-		20-40	HARD	-		C	MODERATE

SANITARY FACILITIES (B)

CONSTRUCTION MATERIAL (B)

SEPTIC TANK	0-15%: SEVERE-DEPTH TO ROCK	ROADFILL	0-25%: POOR-AREA RECLAIM
ABSORPTION	15+%: SEVERE-DEPTH TO ROCK, SLOPE		25+%: POOR-AREA RECLAIM, SLOPE
FIELDS			

SEWAGE	0-7%: SEVERE-SEEPAGE, DEPTH TO ROCK		IMPROBABLE-EXCESS FINES
LAGOON	7+%: SEVERE-SEEPAGE, DEPTH TO ROCK, SLOPE	SAND	
AREAS			

SANITARY	0-15%: SEVERE-DEPTH TO ROCK, SEEPAGE		IMPROBABLE-EXCESS FINES
LANDFILL	15+%: SEVERE-DEPTH TO ROCK, SEEPAGE, SLOPE	GRAVEL	
(TRENCH)			

SANITARY	0-15%: SEVERE-DEPTH TO ROCK, SEEPAGE		0-15%: POOR-SMALL STONES
LANDFILL	15+%: SEVERE-DEPTH TO ROCK, SEEPAGE, SLOPE	TOPSOIL	15+%: POOR-SMALL STONES, SLOPE
(AREA)			

DAILY	0-15%: POOR-AREA RECLAIM		WATER MANAGEMENT (B)
	15+%: POOR-AREA RECLAIM, SLOPE		

COVER FOR		POND	0-5%: SEVERE-SEEPAGE
LANDFILL		RESERVOIR	5+%: SEVERE-SEEPAGE, SLOPE
		AREA	

BUILDING SITE DEVELOPMENT (B)

SHALLOW	0-15%: SEVERE-DEPTH TO ROCK	EMBANKMENTS	SEVERE-PIPING
EXCAVATIONS	15+%: SEVERE-DEPTH TO ROCK, SLOPE	DIKES AND	
		LEVEES	

DWELLINGS	0-5%: MODERATE-DEPTH TO ROCK	EXCAVATED	SEVERE-NO WATER
WITHOUT	5-15%: MODERATE-SLOPE, DEPTH TO ROCK	PONDS	
BASEMENTS	15+%: SEVERE-SLOPE	AQUIFER FED	

DWELLINGS	0-15%: SEVERE-DEPTH TO ROCK		DEEP TO WATER
WITH	15+%: SEVERE-DEPTH TO ROCK, SLOPE	DRAINAGE	
BASEMENTS			

SMALL	0-4%: MODERATE-DEPTH TO ROCK		0-3%: DROUGHTY, DEPTH TO ROCK
COMMERCIAL	4-8%: MODERATE-SLOPE, DEPTH TO ROCK	IRRIGATION	3+%: DROUGHTY, DEPTH TO ROCK, SLOPE
BUILDINGS	8+%: SEVERE-SLOPE		

LOCAL	0-5%: MODERATE-DEPTH TO ROCK, FROST ACTION	TERRACES	0-5% STV, STX: LARGE STONES, DEPTH TO ROCK
ROADS AND	5-15%: MODERATE-DEPTH TO ROCK, SLOPE, FROST ACTION	AND	5+% STV, STX: SLOPE, LARGE STONES, DEPTH TO ROCK
STREETS	15+%: SEVERE-SLOPE	DIVERSIONS	

LAWNS,	STV: MODERATE-SMALL STONES, LARGE STONES, DROUGHTY	GRASSED	0-5% STV, STX: LARGE STONES, DROUGHTY
LANDSCAPING		WATERWAYS	5+% STV, STX: LARGE STONES, SLOPE, DROUGHTY
AND GOLF	STX: SEVERE-LARGE STONES		
FAIRWAYS			

0-8%: MODERATE-SMALL STONES	0-6%STV,STX: SEVERE-LARGE STONES,SMALL STONES
8-15%: MODERATE-SLOPE,SMALL STONES	6+X STV,STX: SEVERE-LARGE STONES,SLOPE,
CAMP AREAS 15+X: SEVERE-SLOPE	PLAYGROUNDS SMALL STONES
0-8%: MODERATE-SMALL STONES	0-15% STV: SLIGHT
8-15%: MODERATE-SLOPE,SMALL STONES	PATHS 15-25% STV: MODERATE-SLOPE
PICNIC AREAS 15+X: SEVERE-SLOPE	AND 25+X STV: SEVERE-SLOPE
	TRAILS 0-25% STX: SEVERE-LARGE STONES
	25+X STX: SEVERE-LARGE STONES,SLOPE

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)		(C)
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364	365	366

[illegible]

CLASS-	ORD	MANAGEMENT PROBLEMS				POTENTIAL PRODUCTIVITY				
DETERMINING PHASE	SYM	EROS	NIEQUIP.	SEEDL.	WINDTH	PLANT	COMMON TREES	SITE/PROD	TREES TO PLANT	
	HAZARD	LIMIT	MORT*	Y	HAZARD	COMPET		INDX	CLAS	
10-15% STV	3A	SLIGHT	SLIGHT	SLIGHT	MODER.	SLIGHT	SUGAR MAPLE	160	3	EASTERN WHITE PINE
15-35% STV	3R	MODER.	MODER.	SLIGHT	MODER.	SLIGHT	NORTHERN RED OAK	1	1	WHITE SPRUCE
35+% STV	3R	SEVERE	SEVERE	SLIGHT	MODER.	SLIGHT	EASTERN WHITE PINE	150	6	RED SPRUCE
10-15% STX	3X	SLIGHT	MODER.	SLIGHT	MODER.	SLIGHT	RED SPRUCE	150	8	
15-35% STX	3R	MODER.	MODER.	SLIGHT	MODER.	SLIGHT	YELLOW BIRCH	155	2	SCOTCH PINE
35+% STX	3R	SEVERE	SEVERE	SLIGHT	MODER.	SLIGHT	PAPER BIRCH	1	1	BALSAM FIR
							WHITE SPRUCE	155	9	TAMARACK
							BALSAM FIR			
							WHITE ASH	165	3	

TUNBRIDGE SERIES
STONY

VT0075

WINDBREAKS

CLASS-DETERMINING PHASE	SPECIES	INT	SPECIES	INT	SPECIES	INT	SPECIES	INT
	NONE							

WILDLIFE HABITAT SUITABILITY (E)

CLASS-	POTENTIAL FOR HABITAT ELEMENTS							POTENTIAL AS HABITAT FOR:			
DETERMINING PHASE	GRAIN & GRASS SEED	WILD LEGUME	WILD HERB.	HARDWOOD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW WATER	OPENLAND WILDLF	WOODLAND WILDLF	WETLAND RANGELAND WILDLF
10-25% STV	IV. POOR	POOR	GOOD	GOOD	GOOD	-	POOR	IV. POOR	POOR	GOOD	IV. POOR
26-35% STV	IV. POOR	POOR	GOOD	GOOD	GOOD	-	IV. POOR	IV. POOR	POOR	GOOD	IV. POOR
36-45% STV	IV. POOR	IV. POOR	GOOD	GOOD	GOOD	-	IV. POOR	IV. POOR	POOR	FAIR	IV. POOR
46-55% STV	IV. POOR	IV. POOR	GOOD	GOOD	GOOD	-	IV. POOR	IV. POOR	POOR	FAIR	IV. POOR
56-65% STV	IV. POOR	IV. POOR	GOOD	GOOD	GOOD	-	IV. POOR	IV. POOR	POOR	FAIR	IV. POOR

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

COMMON PLANT NAME	PLANT SYMBOL (NLSPN)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE									
		10-25% STV	26-35% STV	36-45% STV	46-55% STV	56-65% STV	66-75% STV	76-85% STV	86-95% STV	96-100% STV	WETLAND
STRIPED MAPLE	ACPE										
WOODFERN	DRYOP										
CLUBMOSS	LYCOP2										
BLACKBERRY	RUBUS										
EASTERN HOPHORNBEAM	OSVI										
WILD LILY OF THE VALLEY	MACA4										
WOOD BORREL	OXMD										
BELLWORT	UVULA										
HAY SCENTED FERN	DEPU2										
GOLDTHREAD	COOC										
HOBBLEBUSH	VIAL*										
SERVICEBERRY	AMELA										

POTENTIAL PRODUCTION (LBS./AC. DRY WT.):

FAVORABLE YEARS
NORMAL YEARS
UNFAVORABLE YEARS

FOOTNOTES

- ESTIMATED SOIL PROPERTIES BASED ON LAB DATA FROM 5 PEDONS FROM VERMONT AND FROM SIMILAR SOILS.
- RATINGS BASED ON NATIONAL SOILS HANDBOOK, SECTION 603.
- LUC BASED ON AG HANDBOOK NO 210 AND REGIONAL CRITERIA.
- RATINGS BASED ON NATIONAL FORESTRY MANUAL.
- RATINGS BASED ON SOILS MEMO-74 JANUARY 1972.